Ingut Dentit: { \( \frac{1}{2000 \text{total}} \) 0-9, ., (, ), +, -, \( \frac{1}{2} \), \( \frac{1}{2} \),

Oferations: { Addition, Subtraction, Division, multiplication, Exponentiation, Square Rooty,
convert Decimal to Fraction}

Sunctions that are requested through an interface.

[2,] command line interface

[3.] How shall basic ingut be entered? Chasic meaning not requiring an explicit two operation requires. All but square root and consectsion can be requested implicitly. Square root requires either and defined ingut world or an intertalle vernest; the vernest the requires a system of creating and tracking variables within the calculator, so expanding the ingut language with shall suffice. Fractional conversion can only be fersormed out a value and not an operation, so it must be an infertable request C though a complex implementation would define an ingut world that operates on only a single value and that connot agger in an expression with other— ... wait, this is simple.

In conclusion, ingut with shall be entered within the grogram, and all ogerations shall be defined in the ingut language.

[4.] keep Record the value of the idst eagression evaluated. (This requires a single variable in the shoppam?)

[5.] Main ingut call or ingut Main values and order of operations call

Either the calculater will garse the input string or the stanta end will sarse it and produce a collection of simple (two-realing) expressions in the order they must be evaluated.

[6.] An expression can be decomposed into terms that regresent simple two-value expressions (me & and a term can contain simpler terms if needed).

Not Enough Time; of allow only binary or unary
Perhaps there is enough time

[1.] Calculated desends on insix-to-gresix algorithm; so that (atended algorithm belongs mondated by nowhere but inside the calculated which desends on it for expression evaluation.

[2.] tagaage Alshabet

operations

struct Calculator

- infix-toppretix a790
- most becent evaluation
- stelix evaluation algo
- insut Ualidation

## 3142 (ab 2)

[3.] Evaluonal conversion shall be an invertace request and not desined in the input ranguage.

[ 4] Roots will have to be expressed as exponents.

[ A HEN Some 4 Me ]

[ 1.] main = Insout Lcalinator (Ingut) call.h define servet Sherix define grefix 27905